

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1 - 12. (canceled).

13. (currently amended): A method of manufacturing a stator in a rotating electric machine, the method comprising:

a preparing step for preparing a stator core having plural slots in an inner peripheral surface, each slot of the plural slots has a slot peripheral wall and slot opening that opens in the inner peripheral surface, the slot peripheral wall of each slot has a slot bottom wall and a pair of slot side walls opposing to each other and continuing to the slot bottom wall;

a spraying step for spraying a powder of an electrical insulation material on the slot peripheral wall of each slot to form an insulation coating;

a cutting step for cutting into the insulation coating on the pair of slot side walls at vicinity of the slot opening to form a pair of holding grooves opposing each other, each of the pair of holding grooves has a groove wall, a groove bottom wall and a pair of groove side walls opposing to each other;

a disposing step for disposing a stator winding having plural winding member such that each winding member of the stator winding is inserted inside each slot; and

an inserting step for inserting an electrical insulation member between the groove walls of the holding grooves for closing the slot opening,

wherein in the spraying step, the insulation coating is formed over continuously from the slot bottom wall to the pair of slot side walls,

~~and the groove walls of~~wherein in the cutting step, the holding grooves are formed in the insulation coating on the slot side walls so that a depth of each of the holding grooves is smaller than a thickness of the insulation coating, and the groove bottom wall and the pair of the groove side walls are formed in the insulation coating on the slot side walls.

14.-15. (canceled).

16. (currently amended): The method of manufacturing the stator in the rotating electric machine according to ~~claim 1~~claim 13, wherein the pair of groove side walls is formed so that a clearance is formed between one of groove side walls and the electrical insulation member.

17. (currently amended): The method of manufacturing the stator in the rotating electrical machine according to claim ~~1~~13, wherein each groove bottom wall is formed so that a clearance is formed between the groove bottom wall and the electrical insulation member.

18. (currently amended): The method of manufacturing the stator in the rotating electrical machine according to claim ~~1~~13, wherein each pair of groove side walls of the holding grooves are formed so that the inner one of the pair of groove side walls positioned on an inner side of each slot is formed to tilt in a depth direction of each slot.

19. (withdrawn): The method of manufacturing the stator in the rotating electrical machine according to claim 13, wherein the stator winding is prepared so that each winding member of the stator winding has a width in a circumferential direction smaller than an interval between the slot side walls of each slot peripheral wall, and the width in the circumferential direction is smaller than a width of the slot opening in the circumferential direction.

20. (withdrawn): The method of manufacturing the stator in the rotating electrical machine according to claim. 13, wherein the stator winding is prepared so that each winding member of the stator winding has a width in a circumferential direction smaller than an interval between the slot side walls of each slot peripheral wall, and a thickness in a radius direction smaller than the width in the circumferential direction, and the plural winding members are disposed on line along the pair of slot side walls.

21. (withdrawn): The method of manufacturing the stator in the rotating electric machine according to claim 13, wherein the stator core is prepared so that the stator core has plural teeth portions between respective slots, each teeth portion of the plural teeth portions has a hanging portion that hangs out in a circumferential direction at vicinity of the inner peripheral surface of the stator core, the pair of slot side walls extend onto the hanging portions, and the pair of holding grooves is formed in the insulation coating on the hanging portions.

22. (currently amended): The method of manufacturing the stator in the rotating electric machine according to claim ~~14~~13, wherein the depth of each of the holding grooves is defined in the direction of the thickness of the insulation coating.

23. (previously presented): The method of manufacturing the stator in the rotating electric machine according to claim 13, wherein the insulation coating formed by said spraying is uniform in thickness.

24. (new): The method of manufacturing the stator in the rotating electric machine according to claim 13, wherein the insulation coating formed by said spraying has a predetermined uniform thickness and wherein the formed insulation coating is cut out by axially moving a plurality of cut-out blades provided in matching number with the plural slots.

25. (new): The method of manufacturing the stator in the rotating electric machine according to claim 13, wherein depth of the groove wall cut in the formed insulation coating after the spraying is smaller than thickness of the formed insulation coating and wherein the depth of the groove wall is 30 to 170 μm and the thickness of the formed insulation coating is 50 to 200 μm .